OUROPEAN PATENT OFF

atent Abstracts of Japan

PUBLICATION NUMBER

02018379

PUBLICATION DATE

22-01-90

APPLICATION DATE

07-07-88

APPLICATION NUMBER

63167724

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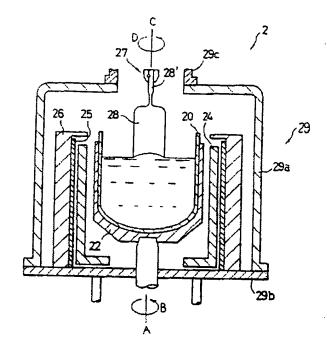
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C30B 15/10 C30B 15/14

TITLE

: DEVICE FOR PULLING UP

SEMICONDUCTOR SINGLE CRYSTAL



ABSTRACT : PURPOSE: To obtain the title pulling up device capable of preventing a pulled-up single crystal semiconductor from being adversely affected by the impurities of a carbon member, etc., by forming a crucible with a quartz glass crucible and a crucible made of high-purity Mo or W and holding the quartz glass crucible, and making a heater from high-purity Mo or W.

> CONSTITUTION: A quartz crucible 20 consisting of a high-purity split body and a high-purity Mo crucible 22 holding the crucible 20 are provided in a high-purity opaque quartz glass vessel 29 of the device 2 for pulling up a semiconductor single crystal. An Mo heater 24 coated with high-purity Mo is provided outside the crucible 22. A heat-insulating cylinder 26 consisting of an SiC porous body is furnished around the heater 24, and a reflector 25 with the surface coated with an SiO_2 film is provided inside the cylinder 26. An Si seed crystal 28' is rotated in direction of the arrow D, and pulled up in direction of the arrow C by a lifting means 27. By this method, an excellent Si single crystal 28 having a long lifetime and low OSE density can be obtained.

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